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### 1 [Scalable parallel application launch on Cplant™](#)



Ron Brightwell, Lee Ann Fisk

November 2001 Supercomputing '01: Proceedings of the 2001 ACM/IEEE conference on Supercomputing (CDROM)

Publisher: ACM

Full text available: [pdf\(82.82 KB\)](#)
[Additional Information: full citation, abstract, references, cited by, index terms](#)

Bibliometrics: Downloads (6 Weeks): 0, Downloads (12 Months): 10, Citation Count: 3

This paper describes the components of a runtime system for launching parallel applications and presents performance results for starting a job on more than a thousand nodes of a workstation cluster. This runtime system was developed at Sandia National ...

Keywords: massively parallel, runtime system, workstation cluster

### 2 [MPI support in the Prism programming environment](#)



Steve Sistare, Erica Dorenkamp, Nick Nevin, Eugene Loh

January 1999 Supercomputing '99: Proceedings of the 1999 ACM/IEEE conference on Supercomputing (CDROM)

Publisher: ACM

Full text available: [pdf\(257.56 KB\)](#)
[Additional Information: full citation, references, index terms](#)

Bibliometrics: Downloads (6 Weeks): 6, Downloads (12 Months): 17, Citation Count: 1

Keywords: debugger, message-passing, performance analysis, programming environments, visualization

### 3 [Flexible collaboration transparency: supporting worker independence in replicated application-sharing systems](#)



James Begole, Mary Beth Rosson, Clifford A. Shaffer

June 1999 ACM Transactions on Computer-Human Interaction (TOCHI), Volume 6 Issue 2

Publisher: ACM

Full text available: [pdf\(312.22 KB\)](#)
[Additional Information: full citation, abstract, references, cited by, index terms, review](#)

Bibliometrics: Downloads (6 Weeks): 9, Downloads (12 Months): 103, Citation Count: 27

This article presents a critique of conventional collaboration transparency systems, also called "application-sharing" systems, which provide the real-time shared use of legacy single-user applications. We find that conventional collaboration ...

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Keywords: Flexible JAMM, Java, application sharing, collaboration transparency, computer-supported cooperative work, groupware, usability

#### 4 Specifying representations of machine instructions



Norman Ramsey, Mary F. Fernández

May 1997 ACM Transactions on Programming Languages and Systems (TOPLAS),  
Volume 19 Issue 3

Publisher: ACM

Full text available: [pdf\(320.62 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [cited by](#), [index terms](#)

Bibliometrics: Downloads (6 Weeks): 4, Downloads (12 Months): 48, Citation Count: 22

We present SLED, a specification language for Encoding and Decoding, which describes, abstract, binary, and assembly-language representations of machine instructions. Guided by a SLED specification, the New Jersey Machine-Code Toolkit generates bit-manipulating ...

Keywords: compiler generation, decoding, encoding, machine code, machine description, object code, relocation

#### 5 MRNet: A Software-Based Multicast/Reduction Network for Scalable Tools

Philip C. Roth, Dorian C. Arnold, Barton P. Miller

November 2003 SC '03: Proceedings of the 2003 ACM/IEEE conference on Supercomputing

Publisher: IEEE Computer Society

Full text available: [pdf\(176.52 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [cited by](#)

Bibliometrics: Downloads (6 Weeks): 1, Downloads (12 Months): 10, Citation Count: 6

We present MRNet, a software-based multicast/reduction network for building scalable performance and system administration tools. MRNet supports multiple simultaneous, asynchronous collective communication operations. MRNet is flexible, allowing tool ...

Keywords: Scalability, tools, multicast, reduction, aggregation

#### 6 GCspy: an adaptable heap visualisation framework



Tony Printezis, Richard Jones

November 2002 OOPSLA '02: Proceedings of the 17th ACM SIGPLAN conference on Object-oriented programming, systems, languages, and applications

Publisher: ACM

Full text available: [pdf\(215.66 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [cited by](#), [index terms](#)

Bibliometrics: Downloads (6 Weeks): 1, Downloads (12 Months): 25, Citation Count: 4

GCspy is an architectural framework for the collection, transmission, storage and replay of memory management behaviour. It makes new contributions to the understanding of the dynamic memory behaviour of programming languages (and especially object-oriented ...

Keywords: Java, garbage collection, language implementation, memory management, visualisation of objects

#### 7 Scan-chain based watch-points for efficient run-time debugging and verification of FPGA designs



Anurag Tiwari, Karen A. Tomko

January 2003 ASPDAC: Proceedings of the 2003 conference on Asia South Pacific design automation

Publisher: ACM

Full text available: [pdf\(308.26 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#)

Bibliometrics: Downloads (6 Weeks): 0, Downloads (12 Months): 25, Citation Count: 0

This paper describes a structured and area efficient approach for in-situ debugging of application for FPGA based reconfigurable systems. A scan chain is inserted into the hardware design running on the FPGA, which helps in debugging and verification ...

#### 8 [GENOA—a customizable, front-end-retargetable source code analysis framework](#)



Premkumar T. Devanbu

April 1999 ACM Transactions on Software Engineering and Methodology (TOSEM),

Volume 8 Issue 2

Publisher: ACM

Full text available: [pdf\(241.27 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [cited by](#), [index terms](#), [review](#)

Bibliometrics: Downloads (6 Weeks): 3, Downloads (12 Months): 70, Citation Count: 14

Code analysis tools provide support for such software engineering tasks as program understanding, software metrics, testing, and reengineering. In this article we describe GENOA, the framework underlying application generators such as ...

Keywords: code inspection, metrics, reverse engineering, source analysis

#### 9 [GCspy: an adaptable heap visualisation framework](#)



Tony Printezis, Richard Jones

November 2002 ACM SIGPLAN Notices, Volume 37 Issue 11

Publisher: ACM

Full text available: [pdf\(215.66 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [cited by](#), [index terms](#)

Bibliometrics: Downloads (6 Weeks): 1, Downloads (12 Months): 25, Citation Count: 4

GCspy is an architectural framework for the collection, transmission, storage and replay of memory management behaviour. It makes new contributions to the understanding of the dynamic memory behaviour of programming languages (and especially object-oriented ...

Keywords: Java, garbage collection, language implementation, memory management, visualisation of objects

#### 10 [The Tool Dæmon Protocol \(TDP\)](#)

Barton Miller, Ana Cortes, Miquel A. Senar, Miron Livny

November 2003 SC '03: Proceedings of the 2003 ACM/IEEE conference on Supercomputing

Publisher: IEEE Computer Society

Full text available: [pdf\(809.57 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [cited by](#)

Bibliometrics: Downloads (6 Weeks): 1, Downloads (12 Months): 9, Citation Count: 1

Run-time tools are crucial to program development. In our desktop computer environments, we take for granted the availability of tools for operations such as debugging, profiling, tracing, checkpointing, and visualization. When programs move into distributed ...

#### 11 [Safety checking of machine code](#)



Zhichen Xu, Barton P. Miller, Thomas Reps

August 2000 PLDI '00: Proceedings of the ACM SIGPLAN 2000 conference on Programming language design and implementation

Publisher: ACM

Full text available: [pdf\(306.71 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [cited by](#), [index terms](#)

Bibliometrics: Downloads (6 Weeks): 0, Downloads (12 Months): 41, Citation Count: 18

We show how to determine statically whether it is safe for untrusted machine code to be loaded into a trusted host system. Our safety-checking technique operates directly on the untrusted machine-code program, requiring only that the initial inputs ...

## 12 [Safety checking of machine code](#)



Zhichen Xu, Barton P. Miller, Thomas Reps

May 2000 ACM SIGPLAN Notices, Volume 35 Issue 5

Publisher: ACM

Full text available: [pdf\(306.71 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [cited by](#), [index terms](#)

Bibliometrics: Downloads (6 Weeks): 0, Downloads (12 Months): 41, Citation Count: 18

We show how to determine statically whether it is safe for untrusted machine code to be loaded into a trusted host system. Our safety-checking technique operates directly on the untrusted machine-code program, requiring only that the initial inputs ...

## 13 [Real-time shading](#)



Marc Olano, Kurt Akeley, John C. Hart, Wolfgang Heidrich, Michael McCool, Jason L. Mitchell, Randi Rost

August 2004 SIGGRAPH '04: ACM SIGGRAPH 2004 Course Notes

Publisher: ACM

Full text available: [pdf\(7.39 MB\)](#) Additional Information: [full citation](#), [abstract](#), [cited by](#)

Bibliometrics: Downloads (6 Weeks): 78, Downloads (12 Months): 649, Citation Count: 1

Real-time procedural shading was once seen as a distant dream. When the first version of this course was offered four years ago, real-time shading was possible, but only with one-of-a-kind hardware or by combining the effects of tens to hundreds of rendering ...

## 14 [Testbed on a desktop: strategies and techniques to support multi-hop MANET routing protocol development](#)



James T. Kaba, Douglas R. Raichle

October 2001 MobiHoc '01: Proceedings of the 2nd ACM international symposium on Mobile ad hoc networking & computing

Publisher: ACM

Full text available: [pdf\(269.64 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [cited by](#), [index terms](#)

Bibliometrics: Downloads (6 Weeks): 3, Downloads (12 Months): 48, Citation Count: 6

The development of multi-hop routing protocols for mobile ad hoc networks (MANETs) typically begins with extensive simulation and then proceeds to implementation and real-world testing. While simulation environments can be carefully controlled, real-world ...

Keywords: MANET, mobile ad hoc networks, multi-hop routing, shielding, testbed on a desktop, testbeds

## 15 [Dealing with server corruption in weakly consistent replicated data systems](#)

Mike J. Spreitzer, Marvin M. Theimer, Karin Petersen, Alan J. Demers, Douglas B. Terry

October 1999 Wireless Networks, Volume 5 Issue 5

Publisher: Kluwer Academic Publishers

Full text available: [pdf\(180.10 KB\)](#) Additional Information: [full citation](#), [references](#), [index terms](#)

Bibliometrics: Downloads (6 Weeks): 13, Downloads (12 Months): 36, Citation Count: 0

16 [Using the SimOS machine simulator to study complex computer systems](#)



Mendel Rosenblum, Edouard Bugnion, Scott Devine, Stephen A. Herrod

January 1997 ACM Transactions on Modeling and Computer Simulation (TOMACS),

Volume 7 Issue 1

Publisher: ACM

Full text available: [pdf\(731.76 KB\)](#) Additional Information: [full citation](#), [references](#), [cited by](#), [index terms](#), [review](#)

Bibliometrics: Downloads (6 Weeks): 5, Downloads (12 Months): 88, Citation Count: 65

Keywords: computer architecture, computer simulation, computer system performance analysis, operating systems

17 [Ten handy commands every Linux developer should know](#)

John Fusco

September 2004 Linux Journal, Volume 2004 Issue 125

Publisher: Specialized Systems Consultants, Inc.

Full text available: [html\(20.21 KB\)](#) Additional Information: [full citation](#), [abstract](#)

Bibliometrics: Downloads (6 Weeks): 6, Downloads (12 Months): 58, Citation Count: 0

Making quality software requires simplifying and automating common tasks to save your time for the hard parts.

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